

## PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY  
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 1110/PCT	<b>FOR FURTHER ACTION</b> See Form PCT/IPEA/416	
International application No. PCT/SE2005/000076	International filing date (day/month/year) 25-01-2005	Priority date (day/month/year) 26-01-2004
International Patent Classification (IPC) or national classification and IPC See Supplemental Box		
Applicant Teleflex Automotive Sweden AB et al		

- This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
- This REPORT consists of a total of 4 sheets, including this cover sheet.
- This report is also accompanied by ANNEXES, comprising:
  - ☒ (sent to the applicant and to the International Bureau) a total of 2 sheets, as follows:
    - ☒ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
    - ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
  - ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) \_\_\_\_\_, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

- This report contains indications relating to the following items:

- |                                     |              |   |
|-------------------------------------|--------------|---|
| <input checked="" type="checkbox"/> | Box No. I    | Basis of the report   |
| <input type="checkbox"/>            | Box No. II   | Priority  |
| <input type="checkbox"/>            | Box No. III  | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  |
| <input type="checkbox"/>            | Box No. IV   | Lack of unity of invention  |
| <input checked="" type="checkbox"/> | Box No. V    | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/>            | Box No. VI   | Certain documents cited   |
| <input type="checkbox"/>            | Box No. VII  | Certain defects in the international application  |
| <input type="checkbox"/>            | Box No. VIII | Certain observations on the international application   |

Date of submission of the demand  24-08-2005	Date of completion of this report  18-01-2006
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**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**

International application No.

PCT/SE2005/000076

**Supplemental Box**

In case the space in any of the preceding boxes is not sufficient.  
Continuation of: Cover sheet

**INTERNATIONAL PATENT CLASSIFICATION (IPC) :**

**G05G 1/14 (2006.01)**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2005/000076

## Box No. I Basis of the report

1. With regard to the **language**, this report is based on:

- ☒ the international application in the language in which it was filed
- ☐ a translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of:
- ☐ international search (Rules 12.3(a) and 23.1(b))
- ☐ publication of the international application (Rule 12.4(a))
- ☐ international preliminary examination (Rules 55.2(a) and/or 55.3(a))

2. With regard to the **elements** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☐ the international application as originally filed/furnished
- ☒ the description:
- pages 1 - 8 as originally filed/furnished
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the claims:
- pages \_\_\_\_\_ as originally filed/furnished
- pages\* \_\_\_\_\_ as amended (together with any statement) under Article 19
- pages\* 1 - 2 received by this Authority on 24 - 08 - 2005
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the drawings:
- pages 1 - 5 as originally filed/furnished
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to the sequence listing (*specify*): \_\_\_\_\_

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to the sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2005/000076

**Box No. V** Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)	Claims	<u>1-11</u>	YES
	Claims		NO
Inventive step (IS)	Claims	<u>1-11</u>	YES
	Claims		NO
Industrial applicability (IA)	Claims	<u>1-11</u>	YES
	Claims		NO

## 2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

D1: US 20020007693 A1  
D2: US 20030019319 A1  
D3: US 6082219 A  
D4: US 20010006010 A1  
D5: US 6182525 B1  
D6: EP 0873923 A1  
D7: EP 1260419 A1

The document D1 is regarded as being the closest prior art to the subject-matter of claim 1, and shows a safety device for supporting pedals in a motor vehicle, the object of said safety device being to, in the event of a collision, prevent pedal penetration into the passenger compartment, while at least partial operation of the pedals is retained. The subject-matter of claim 1 therefore differs from this known pedal support in that the shaft is disposed on a slide which is slideable in a guide secured to the bracket.

The subject-matter of claim 1 is therefore novel (Article 33(2) PCT).

The problem to be solved by the present invention may therefore be regarded as providing an alternative solution to the displacement of the shaft to a safety position. None of the cited documents D1-D7 shows a solution for displacement of the shaft using a slide to which the shaft is attached. Thus the solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT).

Claims 2-11 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

2 4 -08- 2005

WHAT IS CLAIMED IS:

1. A pedal support for a vehicle, comprising: a bracket (9) which is secured in a bulkhead disposed in the vehicle between the passenger compartment of the vehicle and the engine room; a shaft (3) which is secured in the bracket and is horizontal and transversely directed in relation to the direction of travel of the vehicle, about which a pedal arm (2) provided with a footplate (23) is pivotal; an operating device (22) which is secured in the pedal arm (2) a distance from the shaft and which is disposed for activation or control of a vehicular function, for example a braking function, the shaft (3) being movably disposed in the direction of travel of the vehicle and having a normal position locked by means of a locking device (13) and the locking device being, in the event of a collision, openable so as to permit displacement of the shaft (3) to a safety position where the footplate (23) is moved away from the legs/feet of the vehicle driver, but where the function of the operating device (22) is at least partly retained, characterised in that the shaft (3) is disposed on a slide (28) which is slidable in a guide (29) secured in the bracket.
2. The pedal support as claimed in Claim 1, **characterised in that** the slide (28) is, in the normal operational position, inserted forwardly in the guide (29).
3. The pedal support as claimed in Claims 1 and 2, **characterised in that** the slide (28) is, in the safety position, displaced rearwardly, partly out of the guide (29).
4. The pedal support as claimed in any of Claims 1 to 3, **characterised in that** an arrest member (30) is disposed in the guide (29) for limiting of the movement of the shaft (3) rearwardly past the safety position.
5. The pedal support as claimed in Claim 4, **characterised in that** the arrest member (30) includes pins which extend inwards in the guide (29) and which are intended to cooperate with projecting pins on the slide (28).
6. The pedal support as claimed in any of Claims 1 to 5, **characterised in that** a spring means is disposed against the slide (28) with a view to displacing the slide when the locking device (13) is triggered.

7. The pedal support as claimed in any of Claims 1 to 6, **characterised in that** the locking device (13) is disposed in the guide (29).
8. The pedal support as claimed in any of Claims 1 to 7, **characterised in that** the locking device (13) is a spring lock.
9. The pedal support as claimed in any of Claims 1 to 8, **characterised in that** triggering of the locking device (13) is initiated by an impulse from a sensor disposed in the vehicle.
10. The pedal support as claimed in any of Claims 1 to 9, **characterised in that** triggering of the locking device (13) is initiated by a relative movement between an actuator and a part in the vehicle.
11. The pedal support as claimed in Claim 10, **characterised in that** the relative movement is transferred to the locking device (13) with the aid of mechanical means.